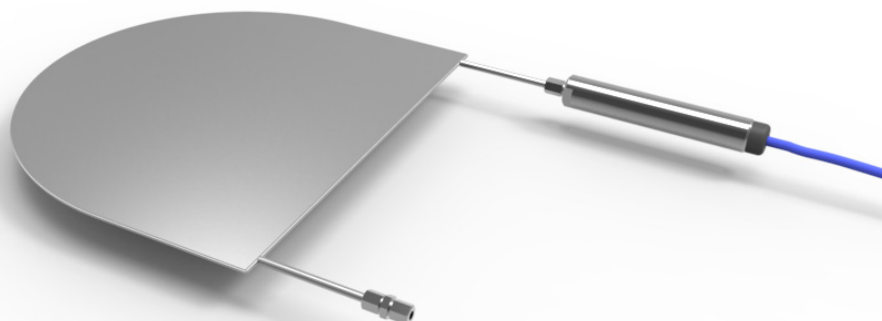


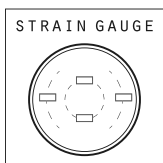
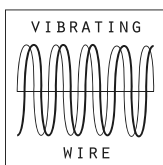
L100

**FLAT JACKS**  
TESTING ACCESSORIES

PRESSURE  
& LOAD CELLS



## FLAT JACKS TESTING ACCESSORIES



The flat jack consists of a steel pressure pad filled with deaired oil equipped with two steel tubes, one for pump connection and one for linking another pad or to mount a pressure transducer for long term monitoring.

Pressure pads are available in different dimensions; customized pad shape and dimensions achievable under request.

The manual pump is provided with a manometer to monitor flat jack's oil pressure during the test.

A special automatic monitoring kit is available in order to connect a pressure transducer to the flat jack: this solution permit the connection of the flat jack to a datalogger for automatic data acquisition and alerting.

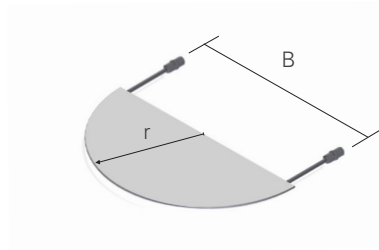
### APPLICATIONS

- Evaluation of stress and deformability in tunneling applications
- Evaluation of mechanical properties of rock and concrete masses
- Restoration of historical and monumental buildings

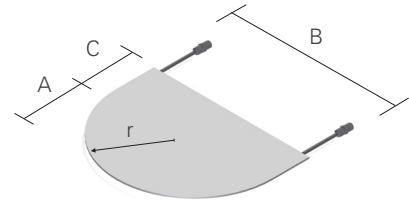
### FEATURES

- Robust and easy to install

## STANDARDS FLAT JACK PADS



OL101351700



OL103352600

Description	semicircle flat jack		eccentric flat jack	
Pad size	A=r C:0 mm	B:350 mm (13.8") r:175 mm (6.8")	A:175 mm (6.9") C:85 mm (3.3")	B:350 mm (13.8") r:175 mm (6.8")
Materials and connectors	Galvanized steel pad, 3/8" Serto connectors		Galvanized steel pad, 3/8" Serto connectors	
Max working pressure	200 bar (20 MPa)		200 bar (20 MPa)	

## SPECIAL PADS (AVAILABLE ONLY ON REQUEST)



OL103353000



OL103111400

Description	eccentric flat jack		eccentric flat jack	
Pad size	A:175mm (6.9") C:62.5 mm (2.4")	B:350 mm (13.8") r:175 mm (6.8")	A:110 mm (4.3") C:104 mm (4.1")	B:140 mm (5.5") r:60 mm (2.3")
Materials and connectors	Galvanized steel pad, 3/8" Serto connectors		Galvanized steel pad, 3/8" Serto connectors	
Max working pressure	200 bar (20 MPa)		200 bar (20 MPa)	

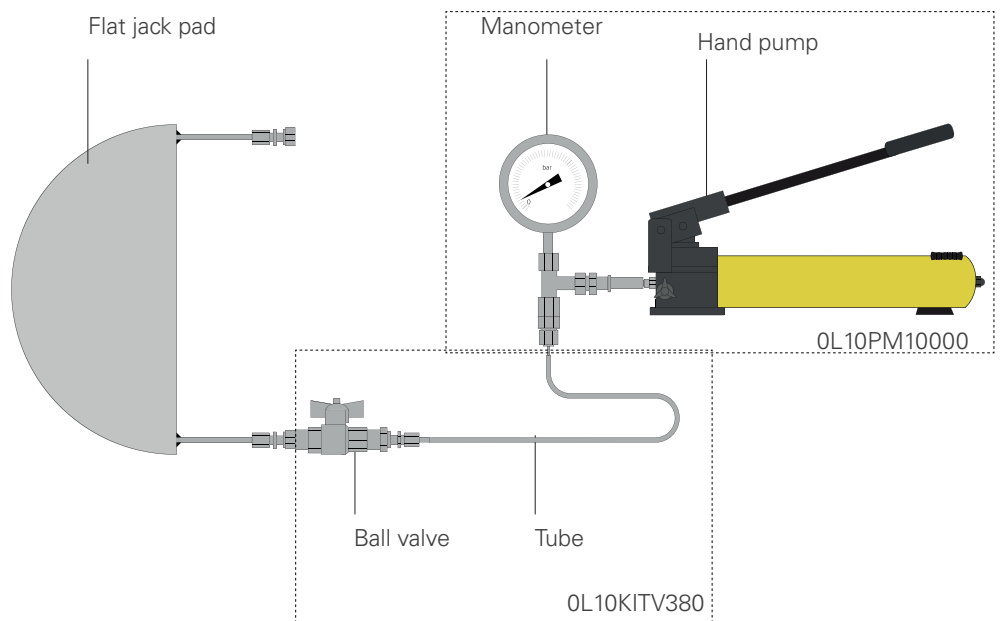
## ACCESSORIES FOR MANUAL TEST

### HAND PUMP WITH MANOMETER OL10PM10000

Hand pump (dimensions about 340x95x150 mm) complete of 100 bar Bourdon manometer and T-fitting for nylon tube connection.

### PAD-PUMP CONNECTION KIT OL10KITV380

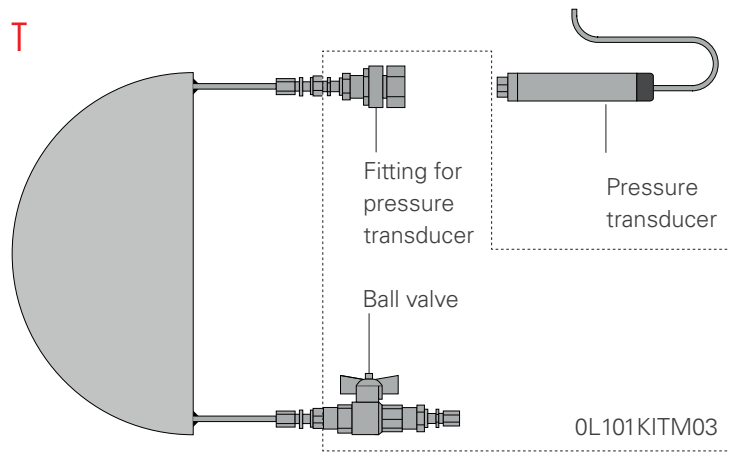
The connection kit includes a ball valve and 4 m tube for hand pump kit connection.





## LONG TERM MONITORING KIT

### FLAT JACK MONITORING KIT OL101KITM03

Composed by ball valve for nylon tube connection and fitting for pressure transducer (transducer not included).



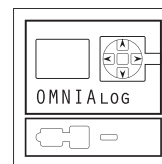
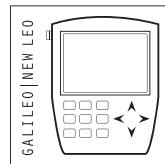
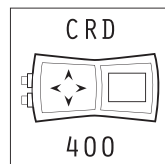
## PRESSURE TRANSDUCERS

	PK45H MODEL 	P252A MODEL 
Description	VW pressure transducer	piezo-resistive pressure transducer
Full scales (FS)	0-350 kPa up to 0-20.0 MPa	200, 500 kPa
Sensitivity	0.03% FS	0.002% FS
Accuracy: Pol. MPE <sup>(1)</sup>	< ±0.25% FS (< ±0.1% FS on request)	< ±0.20% FS (for 200kPa FS) < ±0.15% FS (all other FS)
Typical frequency range <sup>(2)</sup>	2250 - 3000 Hz	-
Output signal	frequency	4-20 mA current loop
Electrical supply	-	12-24 V DC
Operating temperature range	-20°C +80°C	-20°C +80°C
Transducer size	OD 27 mm, 180 mm long	OD 27 mm, 180 mm long
Material	stainless steel	stainless steel
Weight	0.6 kg	0.6 kg
Cable	0WE104K00ZH	0WE102KEOZH
Max cable length to logger <sup>(3)</sup>	1000 m (for more information see <a href="#">FAQ#77</a> )	1000 m (for more information see <a href="#">FAQ#77</a> )

(1) MPE is the Maximum Permitted Error on the measuring range (FSR). In the Calibration Report, the accuracies of the gauge are calculated using both linear regression ( $\leq$  Lin. MPE) and polynomial correction ( $\leq$  Pol. MPE) (2) The expressed frequency may vary +/-10% (3) Refer to FAQ section of Sisgeo website: [www.sisgeo.com/faq](http://www.sisgeo.com/faq)

## READABLE BY

ONLY WITH PRESSURE  
TRANSDUCER



Refer to separate datasheets for further information.

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### TECHNICAL ASSISTANCE

SISGEO offers customers e-mail and phone assistance to ensure proper use of instruments and readout and to maximize performance of the system.

For more information, please refer to the FAQ pages on our website or email us: [assistance@sisgeo.com](mailto:assistance@sisgeo.com)